

47 Watts

LCT43-E Series

Total Power: 47 Watts
Input Voltage: 85-264 VAC
 120-300 VDC
of Outputs: Triple



Special Features

- Totally enclosed
- Universal input
- Quick Installation
- Built-in EMI filter
- Low output ripple
- Overvoltage protection
- Overload protection

Environmental

Operating temperature: 0° to 50°C ambient;
 derate each output at 2.5% per degree from
 50° to 70°C

Electromagnetic susceptibility: designed to meet
 IEC 1000-4, -2, -3, -4, -5, -6, 8, 11 Level 3

Humidity: Operating; non-condensing
 5% to 90%

Vibration: .41 G from 3 to 500 Hz
 Spectral break points of .0065 G²/Hz at 10 Hz and
 200 Hz and 5 db/octave roll off at each end, 2
 hours per axis

Storage temperature: -40° to 85°C

Temperature coefficient: ±.04% per °C

MTBF demonstrated: >300,000 hrs @ full load and
 25°C ambient conditions

Electrical Specs

Input

Input range	85-264 VAC 120-300 VDC
Frequency	47-63 Hz
Inrush current	<20 A peak @ 115 VAC; <40 A peak @ 230 VAC, cold start @ 25°C
Input current	1 A max. (RMS) @ 115 VAC
Efficiency	70% typical at full load
EMI filter	FCC Class B conducted and radiated CISPR 22 Class B conducted and radiated EN55022 Class B conducted and radiated Bellcore GR-1089-core Class B conducted

Safety ground leakage
 current

<3.5 mA @ 50/60 Hz, 264 VAC input

Output

Maximum power	47 W with 12 CFM forced air
Cross regulation	±2% on output 1; ±5% on outputs 2, 3
Hold-up time	10 ms @ 47 W load, 100 VAC input
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110- 135% above peak rating
Overvoltage protection	5.50-6.75 VDC on main output

Safety

VDE	0805/EN60950 (IEC950)	21310-3336-0003
UL	UL1950	E186249
CSA	CSA 22.2-234 -950-95-M90	
CB	Certificate and report	6593
CE	Mark (LVD)	

rev 8.11.04

AMERICAS

5810 Van Allen Way
Carlsbad, CA 92008
Telephone: 760-930-4600
Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 44 (1384) 842-211
Facsimile: 44(1384) 843-355

ASIA

Units 2111-2116, Level 21
Tower 1, Metroplaza
223, Hing Fong Road
Fwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426



Ordering Information

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 12 CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PAR) ³
LCT43-E	+5 V	1.0 A	4 A	7 A	8 A	+4 / -2%	50 mV
	+12 V	0.1 A	1 A	1.2 A	1.5 A	±5%	120 mV
	-12 V	0 A	0.5 A	0.5 A	0.6 A	±5%	120 mV

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 μ F in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
4. Minimum Loads are required.

Pin Assignments

Connector LCT43-E

SK1-1	AC Line
SK1-2	Ground
SK1-3	AC Neutral
SK2-1	-12 V
SK2-2	Com
SK2-3	+5 V
SK2-4	+5 V
SK2-5	Com
SK2-6	+12 V

Mating Connectors

AC Input: IEC 320
DC Outputs: Molex 15-48-0406 (USA)

Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02 ".
3. Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
4. Warranty: 1 year
5. Weight: 1.25 lb. / 0.57 kg

